COMPUTERS, ENVIRONMENT AND URBAN SYSTEMS
VOLUME 29, LIST OF CONTENTS

Volume 29, issue 1 January 2005

CONTENTS

Theme Issue:
Geoportals

D.J. Maguire **P.A. Longley**	1	Editorial Note: Geoportals
D.J. Maguire **P.A. Longley**	3	The emergence of geoportals and their role in spatial data infrastructures
L. Bernard **I. Kanellopoulos** **A. Annoni** **P. Smits**	15	The European geoportal—one step towards the establishment of a European Spatial Data Infrastructure
M.G. Tait	33	Implementing geoportals: applications of distributed GIS
P. Beaumont **P.A. Longley** **D.J. Maguire**	49	Geographic information portals—a UK perspective
D. Askew **S. Evans** **R. Matthews** **P. Swanton**	71	MAGIC: a geoportal for the English countryside

Volume 29, issue 2 March 2005

CONTENTS

N.J. Tate **C.H. Jarvis** **K.E. Moore**	87	Editorial: Locating spatial thinking in teaching practice
M.-P. Kwan **J. Lee**	93	Emergency response after 9/11: the potential of real-time 3D GIS for quick emergency response in micro-spatial environments
R. Harris **Z. Chen**	115	Giving dimension to point locations: urban density profiling using population surface models
A.G.-O. Yeh **J.J. Qiao**	133	ModelObjects—a model management component for the development of planning support systems
H. Zeng **X.B. Wu**	159	Utilities of edge-based metrics for studying landscape fragmentation

S. Amaral **G. Câmara** **A.M.V. Monteiro** **J.A. Quintanilha** **C.D. Elvidge**	179	Estimating population and energy consumption in Brazilian Amazonia using DMSP night-time satellite data
Z.-Y. Yin **S. Walcott** **B. Kaplan** **J. Cao** **W. Lin** **M. Chen** **D. Liu** **Y. Ning**	197	An analysis of the relationship between spatial patterns of water quality and urban development in Shanghai, China
H. Yoshida **M. Omae**	223	An approach for analysis of urban morphology: methods to derive morphological properties of city blocks by using an urban landscape model and their interpretations

---

Volume 29, issue 3 May 2005

CONTENTS

Theme Issue:
Futurescapes

A. Lovett	249	Editorial: Futurescapes
S.A. Nicholson-Cole	255	Representing climate change futures: a critique on the use of images for visual communication
R.D. Swetnam **J.D. Wilson** **M.J. Whittingham** **P.V. Grice**	275	Designing lowland landscapes for farmland birds: scenario testing with GIS
T. Dockerty **A. Lovett** **G. Sünnenberg** **K. Appleton** **M. Parry**	297	Visualising the potential impacts of climate change on rural landscapes
K. Appleton **A. Lovett**	321	GIS-based visualisation of development proposals: reactions from planning and related professionals
R. MacFarlane **H. Stagg** **K. Turner** **M. Lievesley**	341	Peering through the smoke? Tensions in landscape visualisation

Volume 29, issue 4 July 2005

CONTENTS

D.Z. Sui	361	Editorial: Will ubicomp make GIS invisible?
M. Herold **H. Couclelis** **K.C. Clarke**	369	The role of spatial metrics in the analysis and modeling of urban land use change
S. Li **D. Coleman**	401	Modeling distributed GIS data production workflow
I. Benenson **S. Aronovich** **S. Noam**	425	Let's talk objects: generic methodology for urban high-resolution simulation
P. Brindley **S.M. Wise** **R. Maheswaran** **R.P. Haining**	455	The effect of alternative representations of population location on the areal interpolation of air pollution exposure
X. Wang	471	Integrating GIS, simulation models, and visualization in traffic impact analysis

Volume 29, issue 5 September 2005

CONTENTS

Special Issue:
Remote Sensing for Urban Analysis

X. Yang	497	Editorial: Remote sensing for urban analysis: An introduction
S.W. Myint **N. Lam**	501	A study of lacunarity-based texture analysis approaches to improve urban image classification
X. Yang **Z. Liu**	524	Use of satellite-derived landscape imperviousness index to characterize urban spatial growth
V. Mesev	541	Identification and characterisation of urban building patterns using IKONOS imagery and point-based postal data
C. Wu **A.T. Murray**	558	A cokriging method for estimating population density in urban areas
H. Liu **Q. Zhou**	580	Developing urban growth predictions from spatial indicators based on multi-temporal images

Z.-Y. Yin
D.J. Stewart
S. Bullard
J.T. MacLachlan 595 Changes in urban built-up surface and population distribution patterns during 1986–1999: A case study of Cairo, Egypt

Volume 29, issue 6 November 2005

CONTENTS

Part Special Issue:
Urban Data Management System, Chioggia, Italy

H.S. Hansen
D.C. Prosperi 617 Editorial: Citizen participation and Internet GIS—Some recent advances

J. Barton
J. Plume
B. Parolin 630 Public participation in a spatial decision support system for public housing

H. Zeiner
G. Kienast
C. Derler
W. Haas 653 Video documentation of urban areas

Regular Papers

J. Brodeur
Y. Bédard
B. Moulin 669 A geosemantic proximity-based prototype for the interoperability of geospatial data

B. Kok
B. van Loenen 699 How to assess the success of National Spatial Data Infrastructures?

M.N. Khan
M.T. Odman
H.A. Karimi 718 Evaluation of algorithms developed for adaptive grid air quality modeling using surface elevation data

I Volume Contents and Author Index